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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/739,412	12/19/2003	Martin Gagnon	01093-106	1694
7590 Ronald S. Kosie BROUILLETTE KOSIE PRINCE 25th Floor 1100 Rene-Levesque Boulevard West Montreal, H3B 5C9 CANADA			EXAMINER DUONG, THO V	
			ART UNIT 3744	PAPER NUMBER
SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS	02/23/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)
	10/739,412	GAGNON ET AL.
	Examiner	Art Unit
	Tho v. Duong	3744

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 24 November 2006.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-32 is/are pending in the application.
 4a) Of the above claim(s) 4,8-17,21,22,24-26 and 30 is/are withdrawn from consideration.
 5) Claim(s) 18-20,23,27-29,31 and 32 is/are allowed.
 6) Claim(s) 1-3 and 5-7 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413), Paper No(s)/Mail Date. _____
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>12/03; 5/04; 12/04</u> .	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Election/Restrictions

Claims 4,8-17,21-22,24-26 and 30 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a non-elected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 11/24/06.

Specification

The abstract of the disclosure is objected to because of a missing parenthesis. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 and 6-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Francis (WO 9318360A). Francis (figures 3-7,9,10 and page 5, last paragraph- page 8, paragraph 2) discloses all of the claimed limitations.

Claims 1-3 and 6-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Francis (WO 0169154A). Francis'154 (figures 6-12, and page 11, last paragraph- page 12, paragraph 4) discloses all of the claimed limitations.

Claims 1 and 5-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Hossfeld (US 6,059,025). Hossfeld (figure 2 and A as bellow) discloses a hexagon heat exchanger with all of the claimed limitations.

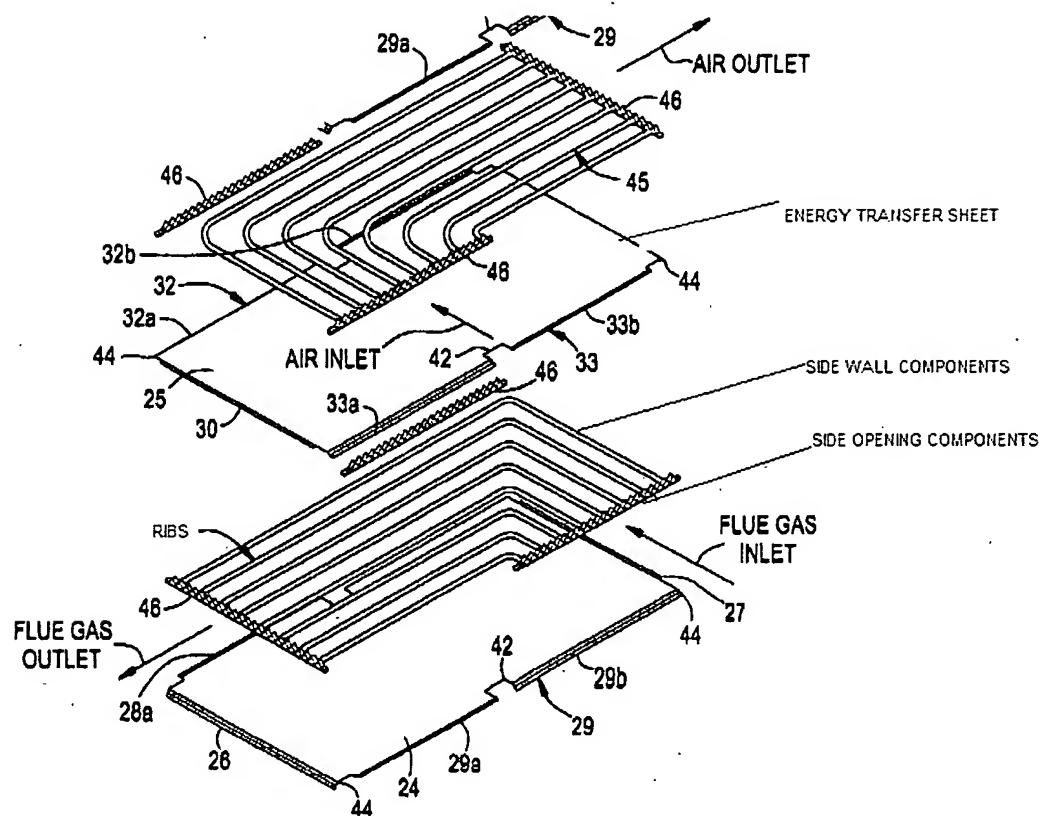


FIGURE A: The modified figure corresponds to figure 2 of Hossfeld with limitation shown

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Francis'154 in view of Chapman (FR 1551747A). Francis substantially discloses all of applicant's invention as above except for the limitation that the heat exchanger is a hexagon. Boner discloses (figure 3 and page 2, paragraph 8- page 3, paragraph 2) a plate heat exchanger plate wherein the plates have two tapered ends to form a hexagon shape for a purpose of minimizing turbulence of the air entering and exiting the passageways. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use Chapman's teaching in Francis's heat exchanger for a purpose of minimizing turbulence of the air entering and exiting the passageways.

Allowable Subject Matter

Claims 18-20,23,27-29 and 31-32 are allowed.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Boner et al. (US 4,556,105) discloses a hexagon shape heat exchanger.

Mizuno et al. (US 4,475,589) discloses a heat exchange device.

Dickson et al. (US 3,495,656) discloses a plate-type heat exchanger.

Ogata Toshiichi (JP 57196091A) discloses a heat exchanger plate with spacers.

Wnek et al. (US 6,413,298) discloses a water-ion conducting membrane.

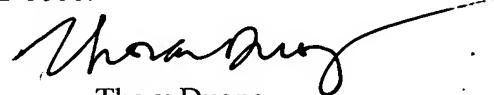
Ohata et al. (US 5,832,993) discloses a heat exchange element.

Art Unit: 3744

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tho v. Duong whose telephone number is 571-272-4793. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tyler J. Cheryl can be reached on 571-272-4834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Tho v Duong
Primary Examiner
Art Unit 3744



TD

February 15, 2007